

Genome version 4.5
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QM protein - protein search, using sw model

Run on: March 12, 2002, 12:48:04 ; Search time 48.66 seconds

(without all updates/sec
19,160 M1160001 updates/sec)

Title: US-09-801-784-36
Perfect score: 50
Sequence: 1 PSAAVATYSP 10

Scoring table:
BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 522463 seqs, 74073290 residues
Total number of hits satisfying chosen parameters: 522463

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Maximum Match 0%
Listing first 45 summaries

Database : A.Geneseq.1101:
1: /SIDSR/qcdata/geneseq/geneseq/AA1980.DAT:
2: /SIDSR/qcdata/geneseq/geneseq/AA1981.DAT:
3: /SIDSR/qcdata/geneseq/geneseq/AA1982.DAT:
4: /SIDSR/qcdata/geneseq/geneseq/AA1983.DAT:
5: /SIDSR/qcdata/geneseq/geneseq/AA1984.DAT:
6: /SIDSR/qcdata/geneseq/geneseq/AA1985.DAT:
7: /SIDSR/qcdata/geneseq/geneseq/AA1986.DAT:
8: /SIDSR/qcdata/geneseq/geneseq/AA1987.DAT:
9: /SIDSR/qcdata/geneseq/geneseq/AA1988.DAT:
10: /SIDSR/qcdata/geneseq/geneseq/AA1989.DAT:
11: /SIDSR/qcdata/geneseq/geneseq/AA1990.DAT:
12: /SIDSR/qcdata/geneseq/geneseq/AA1991.DAT:
13: /SIDSR/qcdata/geneseq/geneseq/AA1992.DAT:
14: /SIDSR/qcdata/geneseq/geneseq/AA1993.DAT:
15: /SIDSR/qcdata/geneseq/geneseq/AA1994.DAT:
16: /SIDSR/qcdata/geneseq/geneseq/AA1995.DAT:
17: /SIDSR/qcdata/geneseq/geneseq/AA1996.DAT:
18: /SIDSR/qcdata/geneseq/geneseq/AA1997.DAT:
19: /SIDSR/qcdata/geneseq/geneseq/AA1998.DAT:
20: /SIDSR/qcdata/geneseq/geneseq/AA1999.DAT:
21: /SIDSR/qcdata/geneseq/geneseq/AA2000.DAT:
22: /SIDSR/qcdata/geneseq/geneseq/AA2001.DAT:

Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	50	100.0	10	AAW53301	CS4-CEA/1 family S
2	50	100.0	36	AAW17903	Immunoglobulin conseq
3	50	100.0	46	AAW53307	CS4-CEA/1 family S
4	50	100.0	18	AAW24221	Peptide fragment 1
5	50	100.0	37	AAW09420	Immunoglobulin peptide
6	50	100.0	37	AAW48416	Escherichia coli f
7	50	100.0	48	AAH06210	Escherichia coli f
8	44	88.0	36	AAW17904	Immunoglobulin conseq
9	44	88.0	37	AAW24222	Peptide fragment 1
10	44	88.0	37	AAW17906	Peptide CS1 from d
11	44	88.0	148	AAW17912	Peptide CS1 from d

12	44	88.0	17	AAW21314	CS4-CEA/1 family S
13	42	84.0	37	AAW24223	Peptide fragment 1
14	42	84.0	37	AAW17907	Immunoglobulin conseq
15	42	84.0	17	AAW17913	CS4-CEA/1 family S
16	40	80.0	10	AAW28320	Peptide fragment 1
17	40	80.0	37	AAW17905	Immunoglobulin peptide
18	40	80.0	147	AAW17911	Peptide CS4/1 from
19	40	80.0	170	AAW48341	Peptide CS4/1 from
20	40	80.0	8	AAW53297	CS4-CEA/1 family S
21	39	78.0	8	AAW53299	CS4-CEA/1 family S
22	39	78.0	75	AAW25886	Human f1101 scd4
23	36	72.0	8	AAW53298	CS4-CEA/1 family S
24	36	72.0	8	AAW48315	CS4-CEA/1 family S
25	36	72.0	67	AAW52251	CS4-CEA/1 family S
26	36	72.0	342	AAW52209	CS4-CEA/1 family S
27	35	70.0	8	AAW53300	CS4-CEA/1 family S
28	35	70.0	36	AAW24224	Peptide fragment 1
29	35	70.0	36	AAW17908	Immunoglobulin peptide
30	35	70.0	40	AAW17914	Immunoglobulin peptide
31	35	70.0	44	AAW29912	Human secreted protein
32	35	70.0	51	AAW17915	Peptide fragment 1
33	35	70.0	204	AAW18082	Human f1101 scd4
34	35	70.0	235	AAW18081	Human f1101 scd4
35	35	70.0	277	AAW18080	Human f1101 scd4
36	35	70.0	374	AAW29535	Human f1101 scd4
37	35	70.0	386	AAW29535	Human f1101 scd4
38	35	70.0	486	AAW44436	Human f1101 scd4
39	35	70.0	521	AAW42019	Human f1101 scd4
40	35	70.0	579	AAW08148	Human f1101 scd4
41	34	68.0	317	AAW20764	Human f1101 scd4
42	34	68.0	346	AAW20763	Human f1101 scd4
43	34	68.0	375	AAW20762	Human f1101 scd4
44	34	68.0	541	AAW70434	Human f1101 scd4
45	34	68.0	541	AAW95586	Human f1101 scd4

ALIGNMENTS

RESULT 1	
ID	AAW53301 standard; peptide: 10 AA.
XX	
AC	AAW53301:
XX	
DI	03-JUL-1998 (first entry)
XX	
DE	CS4-CEA/1 family specific antibody responsive peptide #36.
XX	
DE	Escherichia coli: CS4-CEA/1 family: antibody: immunisation: E107
XX	
KM	Escherichia coli: immunisation: E107
XX	
OS	Synthetic:
XX	
OS	Escherichia coli:
XX	
PN	W0905448 A1.
XX	
PD	12-FEB-1998.
XX	
PE	01-AUG-1997: 97W0 US1476.
XX	
PR	05-AUG-1997: 96US 0023145.
XX	
PR	02-AUG-1996: 96US 0023076.
XX	
PA	(USSA) US 1476 of THE ARMY.
XX	
P1	Cassels E. Immunisation: E107
XX	
DR	WPI: 1998-14548/13.
XX	
P1	Peptide(s) responsive to antibodies against Escherichia coli
XX	
P1	CS4-CEA/1 family: proteins - are subunits of consensus peptide used for
XX	
P1	for immunisation, and consensus antibody compositions, used in

CC Briefing GSA-CFA/1 family proteins by administering a bacteria
CC adjuvant of effective amount, optionally with an adjuvant.
XX
SU Sequence 46 AA:

Query Match 100.00% Score 50; DB 19; Length 47;
Best Local Similarity 100.00% Prod. No. 0.0075;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

UY 1 PSAAVATYSP 10
DB 26 psavaltysp 35
|||||

RESULT 4
AAW4221
AAW4221 standard; peptide: 37 AA.

AC AAW4221:
17-MAR-1998 (first entry)

DE Peptide fragment from Escherichia coli CFA/1.

XX F-lymphocyte epitope; diagnosis; antigen; infectious disease;
KM delayed-type hypersensitivity assay; vaccine development.

XX Escherichia coli.

XX W09727462-A2.

XX 31-JUL-1997.

XX 27-JAN-1997; 97WO US01084.

XX 26-JAN-1996; 96US-0010679.

XX (USSA) US DEPT ARMY GOVERNMENT US ARMY MEDICAL.

XX Brix DL, Sitz KV.

XX WPI: 1997-393814/36.

PT Peptide fragments containing antigen epitope(s) used to trace
PT diseases - used in a delayed-type hypersensitivity assay for in
PT vivo mapping of human T-lymphocyte epitope(s) e.g. for diagnosis.
PT vaccine development etc

XX Disclosure: Page 10; 14pp; English.

CC Peptides AAW4221-6 from Escherichia coli may be used in the method
CC of the invention which relates to the tracing of sources of infectious
CC diseases. The method comprises preparing a short (9-50 amino acid)
CC peptide containing at least one non-conserved epitope of an organism.
CC Injecting a composition containing the peptide intradermally into a test
CC subject in a delayed-type hypersensitivity (DTH) assay and observing the
CC injection site at intervals for induction. The method allows the
CC T-lymphocyte epitopes of a large antigen to be determined in vivo in
CC humans. The method is useful in medicine e.g. in diagnosis, monitoring
CC and treatment design for infectious disease exposure, active autoimmune
CC disease, allergic diseases and malignancy. It is especially useful for
CC tracing infectious diseases e.g. HIV, particularly when a sequence is
CC present only in certain strains of an organism, and developing suitable
CC vaccines. Vaccinated individuals can also be tested for protection
CC against a particular strain. The method allows in vivo mapping of
CC F-lymphocyte epitopes, not previously possible. The method is simpler,
CC more rapid and more sensitive. It can also be applied in a variety of
CC environments e.g. undeveloped regions since specialist equipment is not
CC required.

XX Sequence 37 AA:

Query Match 100.00% Score 50; DB 19; Length 47;
Best Local Similarity 100.00% Prod. No. 0.0075;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

UY 1 PSAAVATYSP 10
DB 26 psavaltysp 35
|||||

RESULT 5
AAW0420
AAW0420 standard; peptide: 37 AA.

AC AAW0420:
25-JUL-1997 (first entry)

DE Immunogenic peptide against E. coli GSA-CFA/1.

XX Immunisation: limited protein colonisation factor antigen
KM adjuvant.

XX Escherichia coli.

XX Synthetic.

XX Key location/Qualifiers

XX Disulfide bond 1 Zinko "The cysteine residue was added to the
XX consensus peptide to allow binding with
XX iodocetylated albumin or toxoid, providing
XX conjugated proteins"

XX Peptide 2, 37

XX W09648171-A1. Consensus_sequence

XX 05-DEC-1996.

XX 03-JUN-1996; 96WO-US08749.

XX 02-JUN-1995; 95US 0860617.

XX (USSA) US DEPT OF THE ARMY.

XX Anderson J, Carter JM, Cassels F.

XX WPI: 1997-04101/04.

PT New consensus peptide from fimbrial proteins of the E. coli family
PT GSA-CFA/1 and donated fimbrial proteins, used for immunisation
PT against infection by bacteria of this family

XX Claim 2: Page 11; 17pp; English.

CC A consensus sequence was constructed from the highly conserved
CC N-terminal region of fimbrial proteins from CFA/1, GSA, GSA,
CC GSA17 and GSP 0166, and was shown to generate antibodies against
CC all members of the family. The consensus sequence also contains
CC both GSA17 and GSP 0166 epitopes. The present sequence represents the
CC conserved sequence with a cysteine residue at the N-terminus of
CC the peptide to allow conjugated peptides to be produced. This allows
CC greater increases in antigenicity when used to immunise against
CC disease caused by enterotoxigenic E. coli of the family GSA-CFA/1.
CC Also antibodies raised against the E. coli GSA-CFA/1 family can be
CC used as diagnostic reagents to identify antigens.

XX Sequence 37 AA:

Query Match 100.00% Score 50; DB 19; Length 47;
Best Local Similarity 100.00% Prod. No. 0.0075;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

07 1 SAVANLYSP: 10
10 11111111
14 27 psavalyssp 46

RESULT 6

AA0606210
10 AA0606210 standard: peptide: 47 AA

XX
XX AA0606210:

01 02 JUL 1998 (first entry)

XX Escherichia coli family CSA CPA/1 immunogen consensus peptide.

XX Monoclonal antibody: antigenic/anti-Escherichia coli: prophylaxis?

XX CSA CPA/1 family protein: diarrhoea.

XX
XX Escherichia coli:

XX Escherichia coli:

XX W0906487 A1.

10 12 FEB 1998.

XX 01 AUG 1997: 99W0 US34477.

XX 02 AUG 1998: 98US 0024075.

XX (US34) US 0677 OF THE APMY.

XX (V01) VIRION SYSDMS INC).

XX Cassels E, Lees A, Schuman R.

XX W01: 1998 14553473.

XX Monoclonal antibody: antigenic/anti-Escherichia coli with CSA CPA/1

XX family protein: is useful in assays and for treatment of

XX prophylaxis against illness arising from infection with E. coli

XX bacterial CSA CPA/1 family proteins

XX
XX biochemistry: page 4: 14pp: English.

XX The present sequence represents a consensus peptide from Escherichia coli family CSA CPA/1

XX immunogen consensus peptide. The present invention describes a new

XX monoclonal antibody which binds selectively and specifically to SAVANLYS.

XX serotypes bacteria bearing CSA CPA/1 family proteins and is produced

XX by hybridoma 96.10988.1011. The monoclonal antibody can agglutinate

XX members of the Escherichia coli family CSA CPA/1, since it was raised to

XX a consensus peptide known to raise antibodies against proteins of all

XX the CSA CPA/1 family. E. coli containing diarrhoea are grouped into five

XX classes, of which enterohemorrhagic (EHEC), to which the CSA CPA/1 family

XX belong, are the most common and pose the greatest risk to travellers.

XX E. coli cause both infant mortality and illness in adult travellers

XX in developing countries. The antibody is useful in assays to detect/

XX family organisms bearing CSA CPA family proteins, by contacting

XX cultures of organisms for sufficient time for interaction, and

XX determining whether a CSA CPA/1 family protein/antibody complex has

XX formed. It can be included in compositions with a carrier appropriate

XX for application to bacteria-containing growth media, optionally with a

XX food or a fluorescent agent or colorimetric reagent, to assist

XX identification of the complex. It can also be included in compositions

XX with pharmaceutically acceptable carriers, especially saline, useful for

XX treating or prophylaxis against illness arising from infection with

XX bacteria bearing CSA CPA/1 family proteins.

XX
XX Sequence: 47 AA:

Query Match: 100.0% Score 509 108 192 Length 47:
Best Local Similarity: 100.0% Prod. No. 0.00077:
Matches: 102 Conserved: 02 Mismatch: 02 Indels: 02 Gaps: 02

07 1 SAVANLYSP: 10
10 11111111
14 27 psavalyssp 46

RESULT 7

AA0606210
10 AA0606210 standard: peptide: 48 AA

XX
XX AA0606210:

01 22 NOV 2000 (first entry)

XX Escherichia coli consensus peptide.

XX E. coli: solid phase conjugate vaccines: bacterial infection;

XX viral infection; parasitic infection; fungal infection; tick-borne

XX Escherichia coli:

XX Escherichia coli:

XX W020625612 A1

10 11 MAY 2000.

XX 29 OCT 1997: 99W0 US25425.

XX 29 OCT 1998: 98US 0106090.

XX (US25) US 0106090.

XX (US25) US 0106090.

XX Lees A:

XX W01: 2000 065401741.

XX Preparation of solid phase vaccine for treating viral, bacterial

XX tick-borne, and fungal diseases: involves adsorbing protein to solid

XX phase adjuvant and covalently linking carbohydrate to adsorbed protein

XX
XX Example 1: Page 27: 40pp: English.

XX The present sequence is a consensus peptide sequence from Escherichia

XX coli. It was used in the production of solid phase conjugate vaccines,

XX which can be used to treat and produce antibodies against bacteria,

XX viral, parasitic or fungal infections.

XX
XX Sequence: 48 AA:

Query Match: 100.0% Score 509 108 212 Length 48:

Best Local Similarity: 100.0% Prod. No. 0.00077:

Matches: 112 Conserved: 02 Mismatch: 02 Indels: 02 Gaps: 02

07 1 SAVANLYSP: 10

10 11111111

14 27 psavalyssp 46

XX

XX AA0606210

10 AA0606210 standard: peptide: 48 AA.

XX

XX AA0606210:

01 25 JUL 1997 (first entry)

XX

XX Immunogenic consensus peptide 2 against E. coli CSA CPA/1.

XX

XX Immunisation: Tubercle protein: colonisation factor and opson

XX and body.

XX

XX Escherichia coli:

XX

05 Synthetic.
 XX
 XX W09648171-A1.
 XX
 XX 05-DEC-1996.
 XX
 XX 03-JUN-1996: 96W0-0508730.
 XX
 XX 02-JUN-1995: 950S-0460617.
 XX
 XX (USSA) US DEPT OF THE ARMY.
 XX
 XX Anderson J, Carter JM, Cassels F;
 XX WPI: 1997-044101/03.
 XX
 XX
 XX New consensus peptide from timbral proteins of the E. coli family
 XX CS4-CFA/I - and denatured timbral proteins, used for immunisation
 XX against infection by bacteria of this family
 XX
 XX Disclosure: Page 3: 17pp: English.
 XX
 XX The present sequence is consensus peptide 2 sequence that was constructed
 XX from the highly conserved N-terminal region of timbral proteins from
 XX CFA/I, CS1, CS2, CS4, CS17 and PCF 0166, and was shown to generate
 XX antibodies against all members of the family. The consensus sequence
 XX also contains both B and T cell epitopes. It can be used to immunise
 XX against disease caused by enterotoxigenic E. coli of the family CS4-CFA/I.
 XX Also antibodies raised against the E. coli CS4-CFA/I family can be
 XX used as diagnostic reagents to identify antigens.
 XX
 XX Sequence 36 AA:

Query Match 88.0% Score 44: DB 18: Length 46:
 Best Local Similarity 80.0%: Pred. No. 0.11:
 Matches 8: Conservative 2: Mismatches 0: Indels 0: Gaps 0:

QY 1 PSAAVATYSP 10
 ID 26 pswatlysp 45

RESULT 9
 AAW24222
 ID AAW24222 standard: peptide: 47 AA.
 AC AAW24222:
 XX
 XX 17-MAR 1998 (first entry)
 XX
 XX Peptide fragment from Escherichia coli (CS1.
 XX T-lymphocyte epitope; diagnostic; antigen; infectious disease;
 XX delayed type hypersensitivity assay; vaccine development).
 XX
 XX Escherichia coli.
 XX
 XX W09727462-A2.
 XX
 XX 41-JUL-1997.
 XX
 XX 47 JAN-1997: 97W0-0501084.
 XX
 XX 26 JAN-1996: 960S-0010674.
 XX
 XX (USSA) US DEPT ARMY GOVERNMENT US ARMY MEDICAL.
 XX
 XX Brix DL, Sitt KV;
 XX WPI: 1997-193814/16.
 XX
 XX Peptide fragments containing antigen epitope(s) used to raise

PI diseases used in a delayed type hypersensitivity assay, for in
 PI vivo mapping of human T lymphocyte epitopes) e.g. for diagnosis.
 PI vaccine development etc
 XX
 XX Disclosure: Page 10: 14pp: English.
 XX
 XX Peptides AAW24221-6 from Escherichia coli may be used in the method
 XX of the invention which relates to the tracing of sources of infectious
 XX diseases. The method comprises preparing a short (9-50 amino acid)
 XX peptide containing at least one non-conserved epitope of an organism,
 XX injecting a composition containing the peptide intradermally into a test
 XX subject in a delayed-type hypersensitivity (DTH) assay and observing the
 XX injection site at intervals for induration. The method allows the
 XX T-lymphocyte epitopes of a large antigen to be determined in vivo in
 XX humans. The method is useful in medicine e.g. in diagnosis, monitoring
 XX and treatment of infection, disease exposure, active and passive
 XX disease, allergic diseases and malignancy. It is especially useful for
 XX tracing infectious diseases e.g. HIV, particularly when a sequence is
 XX present only in certain strains of an organism, and developing suitable
 XX vaccines. Vaccinated individuals can also be tested to verify protection
 XX against a particular strain. The method allows in vivo mapping of
 XX T-lymphocyte epitopes, not previously possible. The method is simple,
 XX more rapid and more sensitive. It can also be applied in a variety of
 XX environments e.g. undeveloped regions since specialist equipment is not
 XX required.
 XX
 XX Sequence 37 AA:

Query Match 88.0% Score 44: DB 18: Length 47:
 Best Local Similarity 80.0%: Pred. No. 0.11:
 Matches 8: Conservative 2: Mismatches 0: Indels 0: Gaps 0:

QY 1 PSAAVATYSP 10
 ID 26 pswatlysp 45

RESULT 10
 AAW17906
 ID AAW17906 standard: peptide: 37 AA.
 AC AAW17906:
 XX
 XX 25 JUL 1997 (first entry)
 XX
 XX Peptide CS1 from denatured protein subunits of E. coli timbral
 XX immunisation: timbral proteins: colonisation factor antigen
 XX antibody.
 XX
 XX Escherichia coli.
 XX
 XX Synthetic.
 XX
 XX W09648171-A1.
 XX
 XX 05-DEC-1996.
 XX
 XX 03-JUN-1996: 96W0-0508730.
 XX
 XX 02-JUN-1995: 950S-0460617.
 XX
 XX (USSA) US DEPT OF THE ARMY.
 XX
 XX Anderson J, Carter JM, Cassels F;
 XX WPI: 1997-044101/03.
 XX
 XX
 XX New consensus peptide from timbral proteins of the E. coli family
 XX CS4-CFA/I - and denatured timbral proteins, used for immunisation
 XX against infection by bacteria of this family
 XX
 XX Disclosure: Page 4: 17pp: English.

XX The present sequence is a peptide from the denatured protein subunit
 of the family from GST. Many of the denatured proteins give rise to
 or antibodies that are reactive with proteins of other strains as shown
 by precipitation studies on nitrocellulose. They are also reactive
 with surface antigens of the family as shown by agglutination
 of organisms. They can be used to immunise against disease caused by
 enterotoxigenic *E. coli* of the family GST (VIA/1). Also antibodies raised
 against the *E. coli* GST (VIA/1) family can be used as diagnostic reagents
 or to identify and types.

XX Sequence: 17 AA

Query Match

88.0% Score 44; 148 bits Length 47

Host Local Similarity: 80.0% Ident. No. 0.117

Matches: 8; Conservative 2; Mismatches 0; Indels 0; Gaps 0

1 (SAAVLYSP) 10

1 (SAAVLYSP) 10

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1 (SAAVLYSP) 10

Host Local Similarity: 80.0% Ident. No. 0.117
 Matches: 8; Conservative 2; Mismatches 0; Indels 0; Gaps 0

1 (SAAVLYSP) 10

1 (SAAVLYSP) 10

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XX W01: 1997 044101/03

XX Now conjugations performed from timbered proteins of the E. coli family
XX of CS4 of A/T and dehydrated timbered proteins used for immunisation
XX against infection by bacteria of this family

XX [disclosure? page 4: 1/1997, English]

XX The present sequence is a peptide from the denatured protein subunit
XX of timbered from CS4. Many of the denatured proteins give rise to
XX antibodies that are reactive with proteins of other strains as shown
XX by precipitation studies on nitrocellulose. They are also reactive
XX with surface antigens of the timbered as shown by agglutination
XX of organisms. They can be used to immunise against disease caused by
XX enterotoxigenic E. coli of the family CS4 of A/T. Also antibodies raised
XX against the E. coli CS4 of A/T family can be used as diagnostic reagents
XX to identify and types.

Sequence: 117 AA:

Query Match

Best Local Similarity: 84.00%; Score: 42; DB: 19; Length: 117;

Matches: 82; Conservation: 1; Mismatches: 1; Indels: 0; Gaps: 0;

QY 1: EVALTYPE 10

1: 1111111

1b: 2b: prozothyp 05

Search completed: March 12, 2002, 12:00:04
Job Time: 9.24 sec